

**REMARKS**

The Official Action mailed May 17, 2006, has been received and its contents carefully noted. This response is filed within three months of the mailing date of the Official Action and therefore is believed to be timely without extension of time. Accordingly, the Applicant respectfully submits that this response is being timely filed.

The Applicant notes with appreciation the consideration of the Information Disclosure Statement filed on October 20, 2003.

Claims 1-20 were pending in the present application prior to the above amendment. Claims 1, 7-9, 12, 13, 16, and 17 have been canceled, claim 2 has been amended to better recite the features of the present invention, and new claims 21-25 have been added to recite additional protection to which the Applicant is entitled. The features of claims 21 and 22 are supported by the specification at page 3, lines 22-24; the features of claims 23 and 24 are supported by the specification at page 4, line 4-page 5, line 2, and the features of claim 25 are supported by the specification at page 6, lines 18-20, for example. Accordingly, claims 2-6, 10, 11, 14, 15, and 18-25 are now pending in the present application, of which claims 2 and 6 are independent. For the reasons set forth in detail below, all claims are believed to be in condition for allowance. Favorable reconsideration is requested.

The Official Action provisionally rejects claims 1, 2, 9, 10, 13, 14, 17, and 18 under the doctrine of obviousness-type double patenting over claims 1, 2, 16, 17, 21, 22, 26, and 27 of co-pending Application No. 10/687,472. In response, independent claim 1 has been canceled and independent claim 2 has been amended such that the double patenting rejection is no longer believed to be applicable. Reconsideration in view thereof is requested.

The Official Action objects to Figure 2 as lacking a designation such as "Prior Art." As required by the Official Action, the Applicant has amended Figure 2 and also Figure 3 to include the designation "Prior Art," as shown in the attached replacement sheets. Reconsideration is requested.

In response to the request in the Official Action at Paragraph 5, the specification has been amended to incorporate language corresponding to reference numerals included in Figure 6, reference numeral 209 in Figure 2, and reference numeral 111 in Figure 1. These amendments merely conform the written description of the invention to the drawings and do not add new matter. Reconsideration of the objection is respectfully requested in view thereof.

Paragraph 7 of the Official Action rejects claims 1-6, 9-11, and 17-19 as obvious based on U.S. Patent Publication No. 2002/0036636 to Yanagi. Paragraph 8 of the Official Action rejects claims 12-15 as obvious based on the combination of Yanagi and U.S. Patent Publication No. 2003/0011586 to Nakajima. In response to this rejection, claims 1, 9, 13, and 17 have been canceled and thus the rejection of these claims is moot. The Applicant respectfully submits that a *prima facie* case of obviousness cannot be maintained against the remaining independent claims of the present application, as amended.

As stated in MPEP §§ 2142-2143.01, to establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. Obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either explicitly or implicitly in the references themselves or in the knowledge generally available to one of ordinary skill in the art. "The test for an implicit showing is what the combined teachings, knowledge of one of ordinary skill in the art, and the nature of the problem to be solved as a whole would have suggested to those of ordinary skill in the art." In re Kotzab, 217 F.3d 1365, 1370, 55 USPQ2d 1313, 1317 (Fed. Cir. 2000). See also In re Fine, 837 F.2d 1071, 5

USPQ2d 1596 (Fed. Cir. 1988); In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

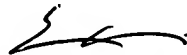
The prior art, either alone or in combination, does not teach or suggest all the features of the independent claims, as amended. Independent claim 2 has been amended to recite that a pixel portion, a driving circuit, a switching element of a charge pump circuit and a charge pump control circuit are formed over the same substrate (see page 6, lines 5-8 of the specification and Figure 1). On the other hand, in Yanagi, only the pixel portion was formed on the TFT PANEL (see Figure 1, Figure 6, and Figure 10). Therefore, Yanagi fails to disclose or suggest at least this feature of amended claim 2. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. § 103(a) are in order and respectfully requested.

Furthermore, with regard to independent claim 6, Applicant respectfully submits that Yanagi fails to disclose or suggest that the frequency divider is controlled by the CPU. In Yanagi, [0115] and Figure 17, discloses a frequency divider, however, the CNT signal only selects FCK or LCK, and the CNT signal is not inputted to the frequency divider. Therefore, it is respectfully submitted that Yanagi fails to teach the feature that the frequency divider is controlled by the CPU. In view of the above, reconsideration and withdrawal of the obviousness rejection is further requested.

Paragraph 10 of the Official Action rejects claims 7, 8, 16, and 20 as anticipated by U.S. Patent Publication No. 2002/0180721 to Kimura. In response to this rejection, claims 7, 8, 12, and 16 have been canceled and thus this rejection is moot.

Should the Examiner believe that anything further would be desirable to place this application in better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,



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**Amendments to the Drawings:**

The attached sheet of drawings includes changes to Figs. 2 and 3. As described in detail below, Fig. 2 and 3 has been amended to designate each drawing as "Prior Art." This sheet, which includes Figs. 2-3, replaces the original sheet including Figs. 2-3.

Attachment: Replacement Sheet